STN search 10/774577

FILE 'CAPLUS' ENTERED AT 12:26:43 ON 27 APR 2011
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FILE COVERS 1907 - 27 Apr 2011 VOL 154 ISS 18
FILE LAST UPDATED: 26 Apr 2011 (20110426/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2011
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2011

CAplus now includes complete International Patent Classification (IPC) reclassification data for the fourth quarter of 2010.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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E4            1     US20050175858/PN
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E10           1     US20050175864/PN
E11           1     US20050175865/PN
E12           1     US20050175866/PN

=> s e3
L1            1 US20050175857/PN

=> d all

L1   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2011 ACS on STN
AN   2005:735143  CAPLUS
DN   143:202688
ED   Entered STN:  12 Aug 2005
TI   Novel blue emitters for use in organic electroluminescence devices
IN   Coggan, Jennifer A.; Hu, Nan-Xing; Aziz, Hany
PA   Xerox Corporation, USA
SO   U.S. Pat. Appl. Publ., 21 pp.
     CODEN: USXXCO
DT   Patent
LA   English
```

CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20050175857	A1	20050811	US 2004-774577	20040209 <--
	JP 2005222948	A	20050818	JP 2005-28449	20050204
	JP 4395084	B2	20100106		
	EP 1580250	A2	20050928	EP 2005-250649	20050204
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
	JP 2010021561	A	20100128	JP 2009-206785	20090908
PRAI	US 2004-774577	A	20040209		
	JP 2005-28449	A3	20050204		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 20050175857	INCL	428690000; 428917000; 313504000; 313506000; 257103000
	IPCI	H05B0033-14 [ICM,7]
	IPCR	H01L0051-50 [I,C*]; H01L0051-50 [I,A]; C07C0015-00 [I,C*]; C07C0015-24 [I,A]; C07C0025-00 [I,C*]; C07C0025-22 [I,A]; C07C0043-00 [I,C*]; C07C0043-20 [I,A]; C07F0007-00 [I,C*]; C07F0007-08 [I,A]; C09K0011-06 [I,C*]; C09K0011-06 [I,A]
	NCL	428/690.000; 257/103.000; 313/504.000; 313/506.000; 428/917.000
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	FTERM	3K007/AB04; 3K007/AB06; 3K007/AB14; 3K007/AB18; 3K007/DB03; 3K007/FA01; 4H006/AA03; 4H006/AB92; 4H006/EA23; 4H006/GP03; 4H049/VN01; 4H049/VP02; 4H049/VQ08; 4H049/VR24; 4H049/VU29
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JP 2010021561	IPCI	H01L0051-50 [I,A]; C09K0011-06 [I,A]; C07C0025-22 [N,A]; C07C0025-00 [N,C*]; C07C0015-58 [N,A]; C07C0015-00 [N,C*]; C07F0007-08 [N,A]; C07F0007-00 [N,C*]
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[I,C*]; C07C0015-24 [I,A]; C07C0015-58 [N,A];
C07C0025-00 [I,C*]; C07C0025-22 [I,A]; C07C0043-00
[I,C*]; C07C0043-20 [I,A]; C07F0007-00 [I,C*];
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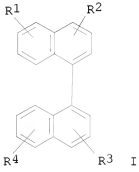
3K107/DD59; 3K107/DD66; 3K107/DD68; 3K107/DD71;
3K107/DD74; 3K107/DD78; 4H006/AA03; 4H006/AB91;
4H049/VN01; 4H049/VP02; 4H049/VQ08; 4H049/VR24;
4H049/VU25

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 143:202688

GI



I

AB The invention refers to an electroluminescent (EL) is provided comprising an anode, an organic electroluminescent element, and a cathode wherein the electroluminescent element contains, for example, a fluorescent 1,1'-binaphthyl derivative component I [R1-4 = H, or C1-25 alkyl, C3-15 alicyclic alkyl, (un)C 6-30 substituted aryl, C atoms from 4 to 24 necessary to complete a fused aromatic ring of naphthalene, anthracene, perylene and the like, C3-15 alicyclic alkyl, Si which may be substituted with a tri-Me, diphenylmethyl, tri-Ph group and the like, C5-24 (un)substituted heteroaryl, C atoms necessary to complete a fused heteroarom. ring of furyl, thienyl, pyridyl, quinolinyl and other heterocyclic systems, C1-25 alkoxy, amino, alkyl amino or aryl amino, halo, cyano, and the like].

ST electroluminescence device binaphthyl fluorescent material

IT Electroluminescent devices
Fluorescent substances
(novel blue emitters for use in organic electroluminescence devices)

IT 676553-38-1P 861909-12-8P, 2,1':4',1'':4'',2'''-Quaternaphthalene
RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(novel blue emitters for use in organic electroluminescence devices)

IT 76-86-8, Triphenylsilyl chloride 604-53-5, 1,1'-Binaphthalene 7726-95-6, Bromine, reactions 32316-92-0, 2-Naphthalene boronic acid 123324-71-0, 4-tert-Butylphenyl boronic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(novel blue emitters for use in organic electroluminescence devices)

IT 49610-35-7P, 4,4'-Dibromo-1,1'-binaphthyl
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

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     (Reactant or reagent)
        (novel blue emitters for use in organic electroluminescence devices)
IT   861909-11-7P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (novel blue emitters for use in organic electroluminescence devices)
OSC.G   8     THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)
UPOS.G  Date last citing reference entered STN:  03 Aug 2010
OS.G   CAPLUS 2006:1225555; 2005:591930; 2007:701455; 2009:53952; 2007:1300762;
               2007:672753; 2006:403965; 2006:101029


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E3            1     49610-35-7/BI
E4            1     604-53-5/BI
E5            1     676553-38-1/BI
E6            1     76-86-8/BI
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E9            1     861909-12-8/BI


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FULL ESTIMATED COST                                     6.58       6.81

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                    -0.87      -0.87

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STRUCTURE FILE UPDATES:   25 APR 2011  HIGHEST RN 1285819-54-6
DICTIONARY FILE UPDATES:  25 APR 2011  HIGHEST RN 1285819-54-6

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TSCA INFORMATION NOW CURRENT THROUGH January 14, 2011.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
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on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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             1 32316-92-0/BI
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             1 604-53-5/BI
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             1 676553-38-1/BI
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             1 76-86-8/BI
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              BI OR 861909-12-8/BI)

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RN   861909-12-8  REGISTRY
ED   Entered STN:  28 Aug 2005
CN   2,1':4',1'':4'',2'''-Quaternaphthalene  (CA INDEX NAME)
MF   C40 H26
SR   CA
LC   STN Files:   CA, CAPLUS, USPAT2, USPATFULL
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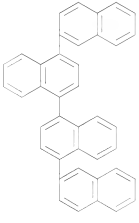

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L2 ANSWER 2 OF 9 REGISTRY COPYRIGHT 2011 ACS on STN
RN 861909-11-7 REGISTRY
ED Entered STN: 28 Aug 2005
CN 1,1'-Binaphthalene, 4,4'-bis[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)
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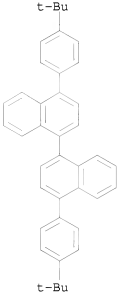
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



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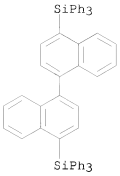
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2011 ACS on STN
RN 676553-38-1 REGISTRY
ED Entered STN: 23 Apr 2004
CN 1,1'-Binaphthalene, 4,4'-bis(triphenylsilyl)- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Silane, [1,1'-binaphthalene]-4,4'-diylbis[triphenyl- (9CI)
MF C56 H42 Si2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



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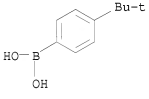
L2 ANSWER 4 OF 9 REGISTRY COPYRIGHT 2011 ACS on STN
RN 123324-71-0 REGISTRY
ED Entered STN: 20 Oct 1989
CN Boronic acid, B-[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Boronic acid, [4-(1,1-dimethylethyl)phenyl]- (9CI)
OTHER NAMES:
CN (p-tert-Butylphenyl)boronic acid
CN 4-t-Butylbenzeneboronic acid
CN 4-t-Butylphenylboronic acid
CN 4-tert-Butylbenzeneboronic acid
CN 4-tert-Butylphenylboronic acid
CN p-tert-Butylbenzeneboronic acid
CN [4-(1,1-Dimethylethyl)phenyl]boronic acid
MF C10 H15 B O2
SR CA
LC STN Files: BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, REAXYSFILE*, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)



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719 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2011 ACS on STN
RN 49610-35-7 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1,1'-Binaphthalene, 4,4'-dibromo- (CA INDEX NAME)
OTHER NAMES:

CN 4,4'-Dibromo-1,1'-binaphthalene
CN 4,4'-Dibromo-1,1'-binaphthyl
MF C20 H12 Br2
CI COM
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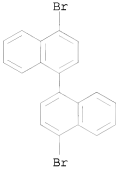

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RN 32316-92-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN Boronic acid, B-2-naphthalenyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Naphthaleneboronic acid (6CI, 7CI, 8CI)
CN Boronic acid, 2-naphthalenyl- (9CI)
OTHER NAMES:
CN (2-Naphthalenyl)boronic acid
CN 2-Naphthylboric acid
CN 2-Naphthylboronic acid
MF C10 H9 B O2
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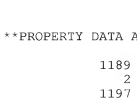

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L2 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2011 ACS on STN
RN 7726-95-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Bromine (CA INDEX NAME)
OTHER NAMES:
CN Bromine element
CN Bromine molecule (Br2)
CN Diatomic bromine
CN Dibromine
DR 23724-81-4
MF Br2
CI COM
LC STN Files: AGRICOLA, ANABSTR, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, PIRA, RTECS*, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

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1261 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
38416 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 8 OF 9 REGISTRY COPYRIGHT 2011 ACS on STN
RN 604-53-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1,1'-Binaphthalene (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,1'-Binaphthyl (8CI)
OTHER NAMES:
CN (±)-1,1'-Binaphthyl
CN (±)Binaphthyl
CN α,α'-Binaphthyl
CN NSC 15230
CN NSC 662279
CN Racemic 1,1'-binaphthyl
DR 32507-32-7
MF C20 H14
CI COM
LC STN Files: AGRICOLA, ANABSTR, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, DETHERM*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, REAXYSFILE*, SPECINFO, TOXCENTER, USPAT2, USPATFULL, USPATOLD
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Other Sources: EINECS**, NDSL**, TSCA**
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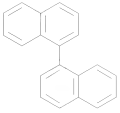

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603 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2011 ACS on STN
RN 76-86-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzene, 1,1',1''-(chlorosilylidyne)tris- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Silane, chlorotriphenyl- (6CI, 8CI, 9CI)
OTHER NAMES:
CN Chlorotriphenylsilane
CN NSC 102804
CN Triphenylchlorosilane
CN Triphenylsilicon chloride
CN Triphenylsilyl chloride
CN TSL 8061
DR 953074-25-4, 155684-37-0
MF C18 H15 Cl Si
CI COM
LC STN Files: AGRICOLA, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, DETHERM*, GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE, REAXYSFILE*, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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54 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1034 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION

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FULL ESTIMATED COST                                    19.86      26.67

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)       SINCE FILE      TOTAL
                                                    ENTRY    SESSION
CA SUBSCRIBER PRICE                                  0.00      -0.87

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STRUCTURE FILE UPDATES:   25 APR 2011  HIGHEST RN 1285819-54-6
DICTIONARY FILE UPDATES:  25 APR 2011  HIGHEST RN 1285819-54-6

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=>  SET TERMSET E#

SET COMMAND COMPLETED

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COST IN U.S. DOLLARS                             SINCE FILE      TOTAL
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FULL ESTIMATED COST                                  0.61      27.28

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FILE 'CAPLUS' ENTERED AT 12:28:18 ON 27 APR 2011
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 27 Apr 2011 VOL 154 ISS 18
FILE LAST UPDATED: 26 Apr 2011 (20110426/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2011
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2011

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the fourth quarter of 2010.

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This file contains CAS Registry Numbers for easy and accurate
substance identification.

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YOU HAVE REQUESTED DATA FROM 4 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 12.80 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2009:21891 CAPLUS
DOCUMENT NUMBER: 150:109325
TITLE: Organic electroluminescence device and phosphorescent material host for organic electroluminescence device
INVENTOR(S): Nishimura, Kazuki; Iwakuma, Toshihiro; Fukuoka, Kenichi; Hosokawa, Chishio; Kawamura, Masahiro; Ito, Mitsunori; Takashima, Yoriyuki; Ogiwara, Toshinari
PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan
SOURCE: U.S. Pat. Appl. Publ., 84pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 14
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20090009065	A1	20090108	US 2008-108066	20080423
US 20090008605	A1	20090108	US 2008-102457	20080414

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WO 2009008198 A1 20090115 WO 2008-JP57251 20080414
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KR 2010042273 A 20100423 KR 2010-7002542 20080414
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CN 101960635 A 20110126 CN 2008-80023731 20080516

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WO 2009008355 A1 20090115 WO 2008-JP62143 20080704

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KR 2010029845 A 20100317 KR 2010-7002544 20080704

KR 2010042271 A 20100423 KR 2010-7002481 20080704

IN 2009KN04548 A 20100423 IN 2009-KN4548 20091230

US 20100327230 A1 20101230 US 2010-667777 20100105

CN 101730948 A 20100609 CN 2008-80023729 20100107

US 20100331585 A1 20101230 US 2010-668105 20100107

PRIORITY APPLN. INFO.:

JP 2007-179109	A	20070707
JP 2007-179120	A	20070707
JP 2007-179121	A	20070707
WO 2008-JP57251	W	20080414
WO 2008-JP57253	W	20080414
WO 2008-JP57258	W	20080414
US 2008-108066	A2	20080423
WO 2008-JP57837	A	20080423
US 2008-53886P	P	20080516
US 2008-53908P	P	20080516
WO 2008-JP59076	W	20080516
WO 2008-JP59077	W	20080516
WO 2008-JP62128	W	20080704
WO 2008-JP62143	W	20080704

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 150:109325; MARPAT 150:109325

ABSTRACT:

An organic electroluminescence device is described comprising a cathode; an anode; and a single-layered or multilayered organic thin-film layer provided between the cathode and the anode is described where the organic thin-film layer includes at least one emitting layer, and the at least one emitting layer includes at least one phosphorescent material and a host material represented by Ra-Ar1-Ar2-Rb where Ra and Rb each represent a substituted or non-substituted benzene ring or a substituted or non-substituted condensed aromatic hydrocarbon ring selected from a group consisting of a naphthalene ring, a chrysene ring, a fluoranthene ring, a triphenylene ring, a phenanthrene ring, a benzophenanthrene ring, a dibenzophenanthrene ring, a benzotriphenylene ring, a benzochrysene ring and a picene ring; andAr1 and Ar2 each represent a substituted or non-substituted benzene ring or a substituted or non-substituted condensed aromatic hydrocarbon ring selected from a group consisting of a naphthalene ring, a chrysene ring, a fluoranthene ring, a triphenylene ring, a benzophenanthrene ring, a dibenzophenanthrene ring, a benzotriphenylene ring, a benzochrysene ring and a picene ring.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2009:20759 CAPLUS
DOCUMENT NUMBER: 150:109324
TITLE: Organic electroluminescence device and phosphorescent material host for organic electroluminescence device
INVENTOR(S): Nishimura, Kazuki; Iwakuma, Toshihiro; Fukuoka, Kenichi; Hosokawa, Chishio; Kawamura, Masahiro; Ito, Mitsunori; Takashima, Yoriyuki; Ogiwara, Toshinari
PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan
SOURCE: U.S. Pat. Appl. Publ., 106pp., Cont.-in-part of U.S. Ser. No. 108,066.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 14
PATENT INFORMATION:

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US 20090009067	A1	20090108	US 2008-122316	20080516
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US 20090008606	A1	20090108	US 2008-102484	20080414
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	WO 2008-JP57837	A	20080423
	WO 2008-JP59076	W	20080516
	WO 2008-JP59077	W	20080516
	WO 2008-JP62128	W	20080704
	WO 2008-JP62143	W	20080704

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): CASREACT 150:109324; MARPAT 150:109324
ABSTRACT:
An organic electroluminescence device is described comprising a cathode; an anode; and a single-layered or multilayered organic thin-film layer provided between the cathode and the anode, where the organic thin-film layer includes at least one emitting layer, and the at least one emitting layer contains: at least one phosphorescent material; and a host material represented by Ra-Ar1-Ar2-Rb where Ar1, Ar2, Ra and Rb each represent a substituted or unsubstituted benzene ring or a substituted or unsubstituted condensed aromatic hydrocarbon group selected from a group consisting of a naphthalene ring, a chrysene ring, a fluoranthene ring, a triphenylene ring, a phenanthrene ring, a benzophenanthrene ring, a dibenzophenanthrene ring, a benzotriphenylene ring, a benzochrysene ring, a picene ring and a benzo[b]fluoranthene ring.

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2006:403965 CAPLUS
DOCUMENT NUMBER: 144:422277
TITLE: Oligonaphthalene derivatives, and light-emitting element and light-emitting device using oligonaphthalene derivatives
INVENTOR(S): Nakashima, Harue; Kawakami, Sachiko; Nomura, Ryoji
PATENT ASSIGNEE(S): Semiconductor Energy Laboratory Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 64 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1652902	A1	20060503	EP 2005-23304	20051025
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
US 20060093857	A1	20060504	US 2005-249362	20051014
US 7666524	B2	20100223		
CN 1769251	A	20060510	CN 2005-10128374	20051028
CN 1769251	B	20110302		
JP 2006151966	A	20060615	JP 2005-315650	20051031

PRIORITY APPLN. INFO.: JP 2004-315669 A 20041029
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 144:422277
ABSTRACT:
The present invention provides a novel material capable of realizing excellent color purity of blue, a light-emitting element and a light-emitting device using the novel material. The present invention provides an oligonaphthalene derivative Ar1(Ar2)nAr3 [n = 1,2; Ar1,3 = R-substituted naphthyl; Ar2 = R-substituted naphthalenediyl; R = H, linear or branched C<6 alkyl, alicyclic alkyl (un)substituted aromatic, heteroarom., alkoxy amino, cyano silyl, ester carbonyl of halo]. The oligonaphthalene derivs. of the present invention have an extremely large band gap, can emit light with extremely short wavelength, and can emit blue light with favorable color purity. A light-emitting element that can exhibit excellent color purity of blue can be obtained by applying this material to the light-emitting element or a light-emitting device; therefore the light-emitting element having superior color reproducibility can be provided.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2005:735143 CAPLUS
DOCUMENT NUMBER: 143:202688
TITLE: Novel blue emitters for use in organic electroluminescence devices
INVENTOR(S): Coggan, Jennifer A.; Hu, Nan-Xing; Aziz, Hany
PATENT ASSIGNEE(S): Xerox Corporation, USA
SOURCE: U.S. Pat. Appl. Publ., 21 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050175857	A1	20050811	US 2004-774577	20040209
JP 2005222948	A	20050818	JP 2005-28449	20050204
JP 4395084	B2	20100106		
EP 1580250	A2	20050928	EP 2005-250649	20050204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK,				

BA, HR, IS, YU

JP 2010021561 A 20100128 JP 2009-206785 20090908

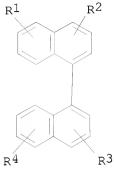
PRIORITY APPLN. INFO.: US 2004-774577 A 20040209

JP 2005-28449 A3 20050204

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 143:202688

GRAPHIC IMAGE:



I

ABSTRACT:

The invention refers to an electroluminescent (EL) is provided comprising an anode, an organic electroluminescent element, and a cathode wherein the electroluminescent element contains, for example, a fluorescent 1,1'-binaphthyl derivative component I [R1-4 = H, or C1-25 alkyl, C3-15 alicyclic alkyl, (un)C 6-30 substituted aryl, C atoms from 4 to 24 necessary to complete a fused aromatic ring of naphthalene, anthracene, perylene and the like, C3-15 alicyclic alkyl, Si which may be substituted with a tri-Me, diphenylmethyl, tri-Ph group and the like, C5-24 (un)substituted heteroaryl, C atoms necessary to complete a fused heteroarom. ring of furyl, thienyl, pyridyl, quinolinyl and other heterocyclic systems, C1-25 alkoxy, amino, alkyl amino or aryl amino, halo, cyano, and the like].

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	14.88	42.16
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.48	-4.35

FILE 'REGISTRY' ENTERED AT 12:30:40 ON 27 APR 2011

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 25 APR 2011 HIGHEST RN 1285819-54-6

DICTIONARY FILE UPDATES: 25 APR 2011 HIGHEST RN 1285819-54-6

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http://www.cas.org/legal/infopolicy.html

TSCA INFORMATION NOW CURRENT THROUGH January 14, 2011.

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experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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L5   1 676553-38-1/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.61	42.77

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.35

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FILE COVERS 1907 - 27 Apr 2011 VOL 154 ISS 18
FILE LAST UPDATED: 26 Apr 2011 (20110426/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2011
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2011

CAplus now includes complete International Patent Classification (IPC) reclassification data for the fourth quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L5

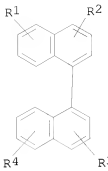
L6 3 L5

=> DIS L6 1 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 3.20 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2005:735143 CAPLUS
DOCUMENT NUMBER: 143:202688
TITLE: Novel blue emitters for use in organic electroluminescence devices
INVENTOR(S): Coggan, Jennifer A.; Hu, Nan-Xing; Aziz, Hany
PATENT ASSIGNEE(S): Xerox Corporation, USA
SOURCE: U.S. Pat. Appl. Publ., 21 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050175857	A1	20050811	US 2004-774577	20040209
JP 2005222948	A	20050818	JP 2005-28449	20050204
JP 4395084	B2	20100106		
EP 1580250	A2	20050928	EP 2005-250649	20050204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
JP 2010021561	A	20100128	JP 2009-206785	20090908
PRIORITY APPLN. INFO.:			US 2004-774577 A	20040209
			JP 2005-28449 A3	20050204

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 143:202688
GRAPHIC IMAGE:



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ABSTRACT:
The invention refers to an electroluminescent (EL) is provided comprising an anode, an organic electroluminescent element, and a cathode wherein the electroluminescent element contains, for example, a fluorescent 1,1'-binaphthyl derivative component I [R1-4 = H, or C1-25 alkyl, C3-15 alicyclic alkyl, (un)C 6-30 substituted aryl, C atoms from 4 to 24 necessary to complete a fused aromatic ring of naphthalene, anthracene, perylene and the like, C3-15 alicyclic alkyl, Si which may be substituted with a tri-Me, diphenylmethyl, tri-Ph group and the like, C5-24 (un)substituted heteroaryl, C atoms necessary to complete a fused heteroarom. ring of furyl, thienyl, pyridyl, quinolinyl and other heterocyclic systems, C1-25 alkoxy, amino, alkyl amino or aryl amino, halo, cyano, and the like].

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)

=> DIS L6 2 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 3.20 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:739385 CAPLUS
DOCUMENT NUMBER: 141:268179
TITLE: Long-life white-emitting organic electroluminescent devices, displays, illumination apparatus, and electric appliances therewith
INVENTOR(S): Fukuda, Mitsuhiro; Genda, Kazuo
PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 577 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004253298	A	20040909	JP 2003-43860	20030221
JP 4590825	B2	20101201		
JP 2009055053	A	20090312	JP 2008-262504	20081009

PRIORITY APPLN. INFO.: JP 2003-43860 A3 20030221
OTHER SOURCE(S): MARPAT 141:268179
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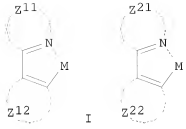

ABSTRACT:
The devices have, in their constituent layers (e.g., emitting layers, hole- or electron-transporting layers), (i) compds. represented by X1R1C:CR2X2 [X1, X2 = aryl, heterocycle; R1, R2 = aryl, heterocyclic hydrocarbyl, cycloalkoxy (R1 = R2 = aryl)], R11R12R13R14R15P (R11-R15 = monovalent substituent), Ar2Ar1C6H4(m-Ar1Ar2) [Ar1 = bivalent aromatic hydrocarbylene; Ar2 = (substituted) Ph; H atom on the benzene ring may be substituted with (cyclo)alkyl, alkoxy, or halo], Z(ArQ)n [Q = (substituted) o-(2-pyridyl)phenyl; Z = n-valent bridging group, single bond; Ar = bivalent arylene; n = 2-8], etc., (ii) fluorescent compds. with mol. weight 500-2000 and atomic ratio F/(F + H) 0-0.9 and having fluorescent peak at ≤415 nm, (iii) polysilanes (R21R22Si)n [R21, R22 = alkyl(oxy), aromatic group, aryloxy; n1 ≥3] or [R31(Ar31NR32R33)Si]n [R31 = alkyl(oxy), aromatic group, aryloxy; R32, R33 = alkyl, aromatic group; Ar31 = arylene; n2 ≥3], and/or (iv) fluorescent compds. satisfying atomic ratio N/C 0-0.05. The devices, having phosphorescent dopants I (Z11 = aromatic azacycle; Z12 = nonarom. ring, 5-membered aromatic ring, azulene; M = metal), II (Z21, Z22 = aromatic azacycle; M = metal), or III (Z41 = azacycle; Z42 = ring; M = metal) in emitting layers, are also claimed. The devices exhibit high luminescent efficiency and substantially white emission, and are suited for light source uses, especially of LCD.

OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)

=> DIS L6 3 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 3.20 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L6 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:272156 CAPLUS
DOCUMENT NUMBER: 140:312148
TITLE: Organic electroluminescent device and electroluminescent display
INVENTOR(S): Kita, Hiroshi; Suzurizato, Yoshiyuki; Yamada, Taketoshi; Karatsu, Takashi; Kitamura, Akihide
PATENT ASSIGNEE(S): Konica Minolta Holdings Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004103463	A	20040402	JP 2002-265416	20020911

PRIORITY APPLN. INFO.: JP 2002-265416 20020911
OTHER SOURCE(S): MARPAT 140:312148
ABSTRACT:
The title device contains specific triphenylarylsilane in an electroluminescent layer. The silane compound is used a host compound or an electron transporting compound The title device shows improved electroluminescence and high durability.

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

=> d his

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L5 1 S E1/RN
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FILE 'CAPLUS' ENTERED AT 12:30:44 ON 27 APR 2011
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